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NPIC/R-223/64
April 1964

PHOTOGRAPHIC INTERPRETATION REPORT

ICBM COMPLEX, GLADKAYA, USSR

CIA DIA

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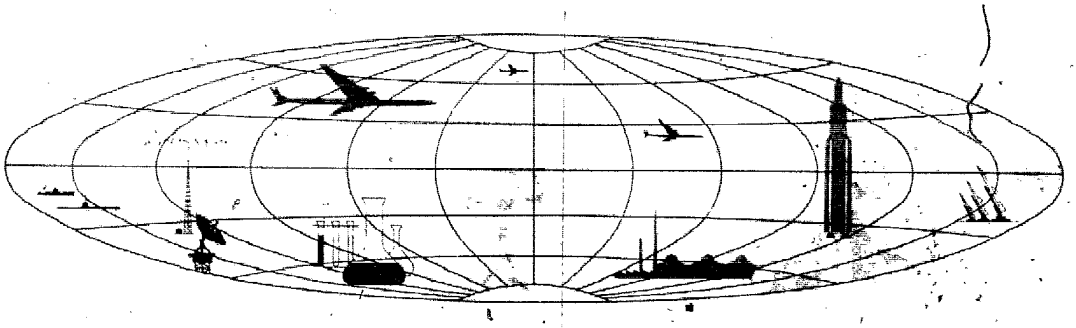

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PHOTOGRAPHIC INTERPRETATION REPORT

ICBM COMPLEX, GLADKAYA, USSR

NPIC/R-223/64
April 1964

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Launch Site A (TDI Site 3)	56-20N 92-19E
Launch Site B (TDI Site 2)	56-24N 92-27E
Launch Site C (TDI Site 4)	56-30N 91-58E
Launch Site D (TDI Site 5)	56-21N 92-15E
Launch Site E (TDI Site 6)	56-26N 92-14E

[redacted]

25X1A

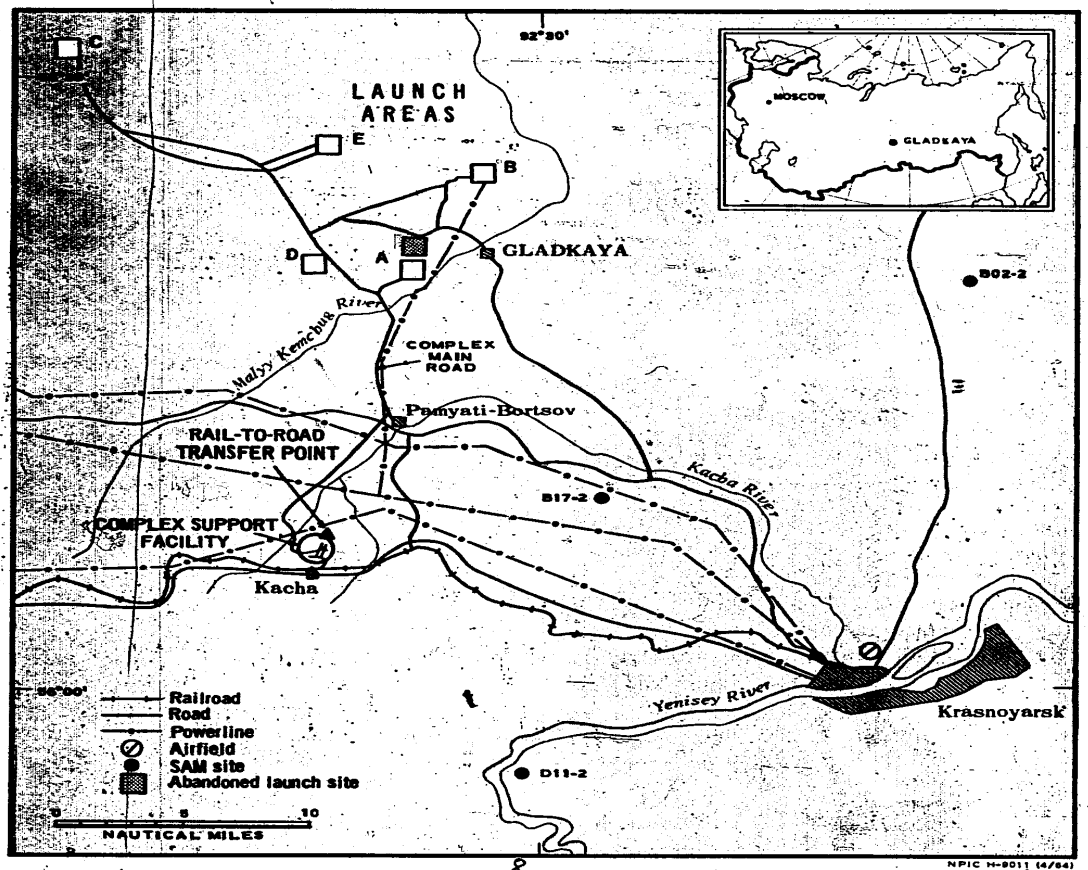

FIGURE 1. LOCATION OF THE COMPLEX.

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ICBM COMPLEX, GLADKAYA, USSR

INTRODUCTION

The Gladkaya ICBM Complex is 16.8 nautical miles (nm) south-southwest of Gladkaya and 21.0 nm west of Krasnoyarsk, near Kacha. It is situated in a forested area having a maximum elevation of 2,313 feet. The range of elevation is 1,000 to 1,300 feet, within the proximity of the launch areas.

The complex support facility and Launch Areas A and B were first identified in [redacted] 25X1D They cannot be negated. 25X1D At that time, the launch areas were classified as Type IIC. This concept was later abandoned and in [redacted] at Launch Area A the first evidence of a Type IID site was observed under construction 0.8 nm south of the original Type IIC site. Subsequent missions over the complex revealed another Type IID site and three Type IIIA sites in [redacted] 25X1D

Within a radius of 25 nm of the Gladkaya ICBM Complex, the following SA-2 SAM sites have been identified:

Krasnoyarsk SAM Site B02-2, [redacted] 25X1A

Gladkaya ICBM Complex SAM Site B17-2, [redacted] 25X1A

Nazaro SAM Site D11-2, [redacted] 25X1A

55 N092 E

COMPLEX SUPPORT FACILITY

The complex support facility (56-05N 92-13E) is near Kacha, 21.0 nm west of Krasnoyarsk (Figures 2 and 3). The facility is road served from Krasnoyarsk and rail served by a spur from the Trans-Siberian railroad. It consists of a railhead and storage area and an administration and housing area. Electric power is supplied by a powerline that borders the north side of the facility. The facility was first identified in [redacted] 25X1D and cannot be negated.

The railhead and storage area, 4,300 by 1,700 feet, contains approximately 51 buildings, 3 rail spurs, and one rail siding. Eight of the buildings are barracks-type and at least 11 buildings are warehouse-type. The rail spurs range in length from 3,075 to 2,065 feet and range in separation from 365 to 150 feet. The rail siding is 2,500 feet long and 65 feet north of the southernmost rail spur. In [redacted] 25X1D numerous rail cars were discernible on the rail spurs. Also visible were a batch plant, an unidentified object, and fencing around segments of the railhead and storage area. 25X1D

The administration and housing area is 800 feet west of the railhead and storage area. This area, 1,400 by 600 feet, contains 32 buildings, including 16 barracks-type buildings, 8 family-type dwellings, and 8 miscellaneous buildings.

Four buildings of various sizes and three unidentified objects are adjacent to the rail siding on the north side of the Trans-Siberian railroad. In [redacted] a train with numerous rail cars was visible on the Trans-Siberian railroad, near the western end of the rail siding. 25X1D

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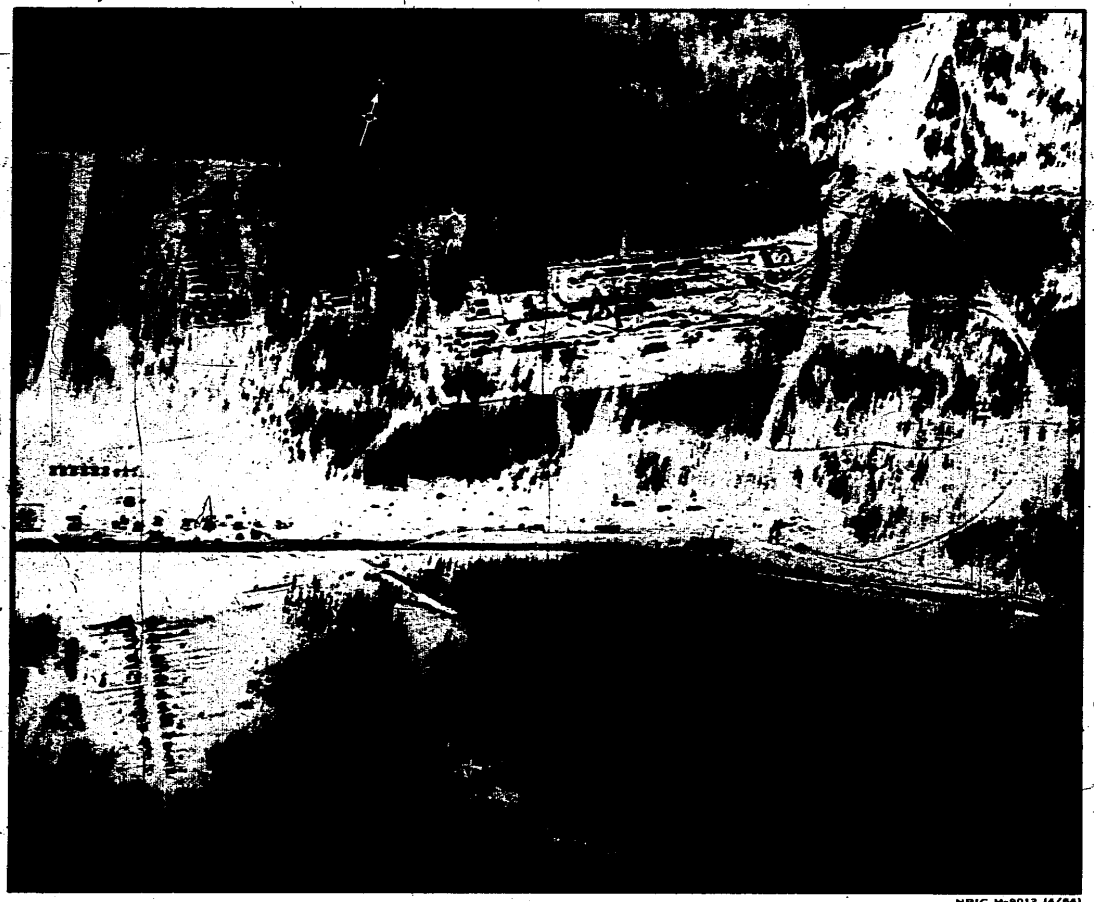
RAIL-TO-ROAD TRANSFER POINT

The rail-to-road transfer point (56-08N 92-13E) is 1.8 nm north of the complex support facility (Figure 4). Earth scarring was observed in this area in [redacted] but the transfer point was not identified until [redacted] It cannot be negated on available photography. 25X1D

25X1D

25X1D

The transfer point, 2,300 by 1,500 feet, is rail served by a branch spur from the same rail spur serving the complex support facility.



25X1D

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FIGURE 2. COMPLEX SUPPORT FACILITY.

25X1D
25X1D

Within the transfer point are two rail spurs, approximately 25 buildings including 5 warehouse or barracks-type buildings, and a storage tank along the western rail spur. In [redacted] several rail cars were visible on a short rail spur which branches off to the northeast of the main rail spur near the entrance to the transfer point. Ten small unidentified objects, possibly storage tanks, are located northwest of this short rail spur. Although these objects were visible in [redacted] they were not in [redacted] possibly because of the snow-covered ground.

25X1D
25X1D
25X1D

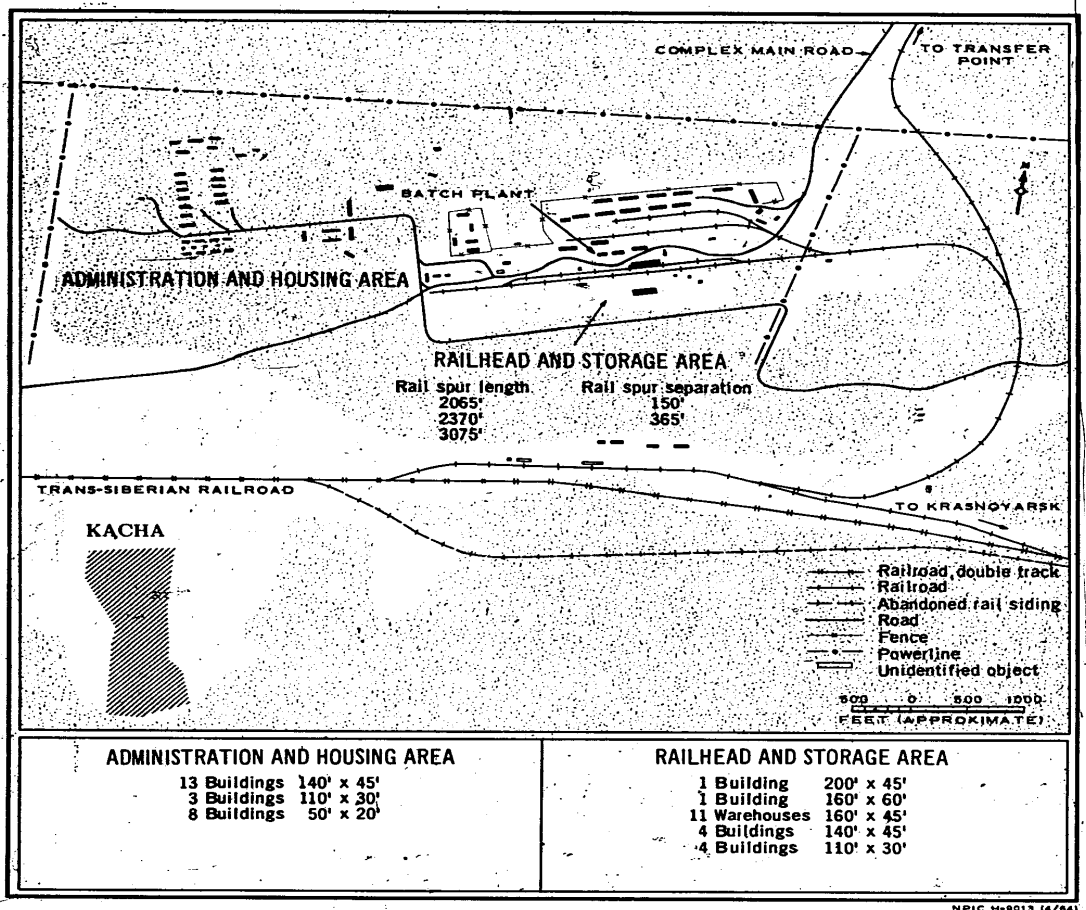

FIGURE 3. LAYOUT OF COMPLEX SUPPORT FACILITY.

25X1D

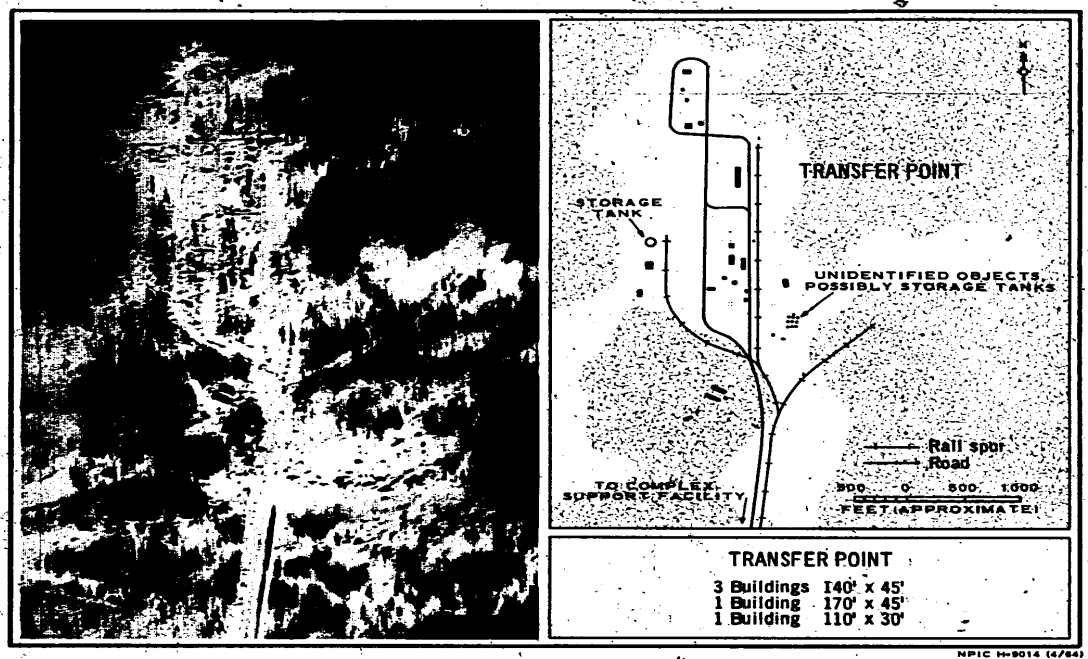

FIGURE 4. RAIL-TO-ROAD TRANSFER POINT.

LAUNCH AREA A

Launch Area A consists of a completed Type IID launch site and a site support facility (Figures 5 and 6). It is situated in a clearing in a wooded area 14.8 nm north-northeast of the complex support facility.

25X1D 25X1D 25X1D A Type IIC launch site, oriented on an azimuth of 60 degrees, was identified in this area in It cannot be negated. After the identification of this launch site, it became apparent that the Type IIC concept had been abandoned in this area because the two missile-ready buildings had been dismantled by 25X1D 25X1D and the site had been partly overgrown with vegetation by 25X1D 25X1D

In new earth scarring was visible 0.8 nm south-southwest of the Type IIC launch site which was not evident in 25X1D 25X1D a Type IID launch site was observed in the midstage of construction, and by the site had been completed. 25X1D

The orientation of the pads of this Type IID launch site is on an azimuth of 5 degrees 25X1D 25X1D An erector/shelter was visible on each pad in 25X1D

25X1D

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FIGURE 5. LAUNCH AREA A.

25X1D

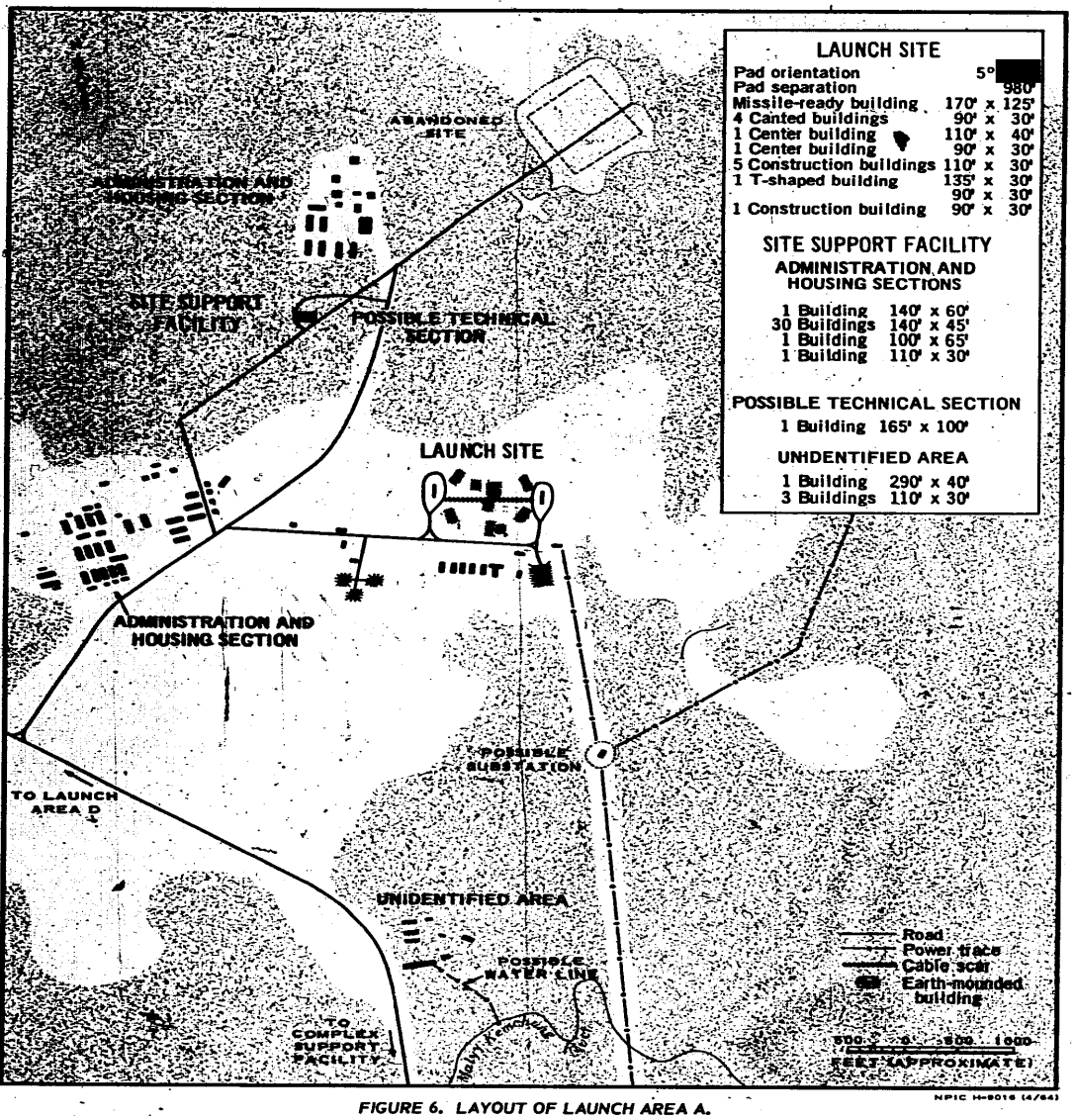

FIGURE 6. LAYOUT OF LAUNCH AREA A.

25X1D [redacted] Only one missile-ready building is present and it is positioned 600 feet behind the right pad. It is earth mounded and canted outward approximately 10 degrees. Between the pads are four earth-mounded canted buildings and five other earth-mounded buildings. In addition, seven construction support buildings or barracks-type buildings, including one T-shaped building, are located west of the missile-ready building and two unidentified smaller structures are adjacent to the road serving the missile-ready building.

Security fencing is not visible around the launch site. A power trace approaches the site from the south and a branch extends northeast from a possible substation to Launch Area B.

25X9 [redacted]

25X9 [redacted]

The site support facility consists of two separate administration and housing sections and a possible technical section. One administration and housing section, approximately 2,500 feet north of the launch site, contains 15 buildings, including 7 barracks-type buildings. The possible technical section, approximately 700 feet south of this administration and housing section, contains a road-served building, 165 by 100 feet. The other administration and housing section, approximately 2,200 feet west of the launch site, contains 47 buildings, including 24 barracks-type buildings.

An unidentified area is 0.8 nm south of the launch site. It contains eight buildings, including three barracks-type buildings. A possible waterline extends from this unidentified area to the nearby Malyy Kemchung river.

LAUNCH AREA B

Launch Area B consists of a Type IID launch site, in the late stage of construction, and a site support facility (Figure 7). It is located in a wooded area 20.4 nm north-northeast of the complex support facility.

25X1D This launch site was first identified in [redacted]

25X1D [redacted] as a Type IIC launch site. Its negation date could not be determined. In

25X1D [redacted] it was revealed that the Type IIC site had been deactivated and a Type IID launch site, in midstage of construction, was being superimposed over the original launch site.

25X1D Re-examination of the previous photographic coverage of [redacted] revealed earth scarring for the buildings between the launch pads of the Type IID launch site, which

25X1D was not evident in [redacted]

25X1D [redacted] the Type IID launch site had progressed to the late stage of construction. Orientation of the pads is on an azimuth of 5 degrees, [redacted] 25X1D

Only one missile-ready building is present and it is 600 feet behind the right pad. It is earth-mounded and canted outward approximately 10 degrees. Between the launch pads are four canted and three other buildings which are also earth-mounded. Earth scarring indicates that both launch pads are still under construction. Security fencing is not visible around the launch site.

25X9 [redacted]

The site support facility is 0.7 nm west of the launch site. It consists of an administration and housing section and a housing section. The

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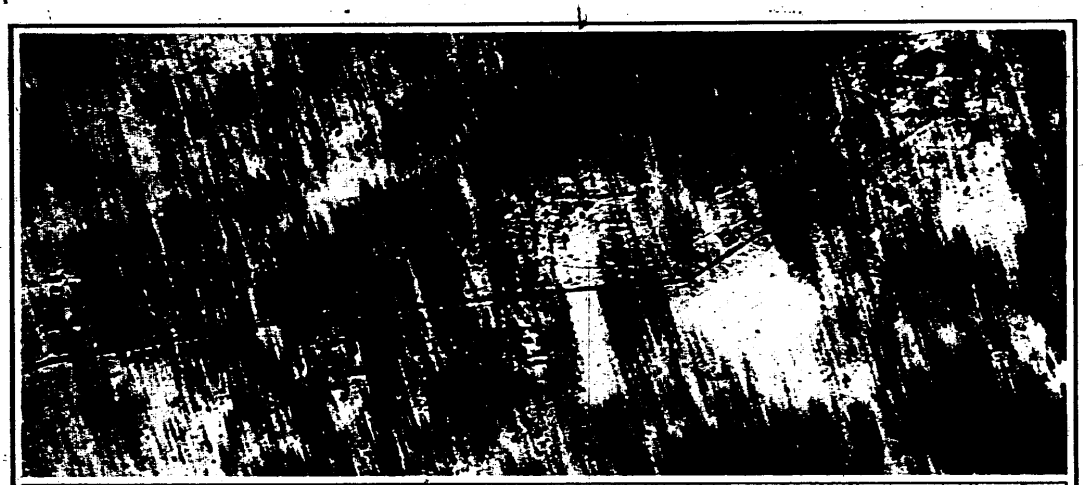
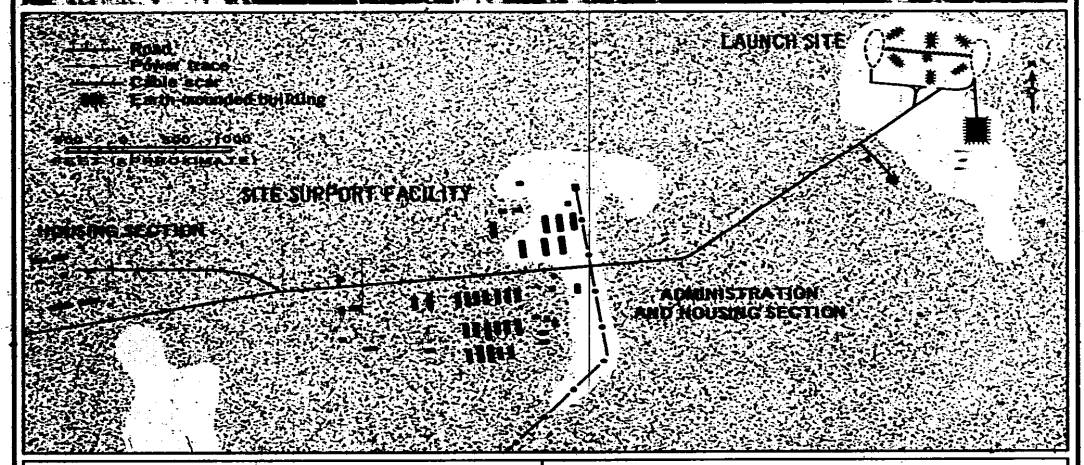
25X1D





25X1D

LAUNCH SITE		SITE SUPPORT FACILITY
Pad orientation	5°	ADMINISTRATION AND HOUSING SECTION
Pad separation	980'	10 Buildings 140' x 45'
Missile-ready building	170' x 125'	18 Buildings 110' x 30'
1 Center building	110' x 40'	HOUSING SECTION
4 Canted buildings	90' x 30'	1 Building 140' x 45'
1 Center building	90' x 30'	3 Buildings 110' x 30'

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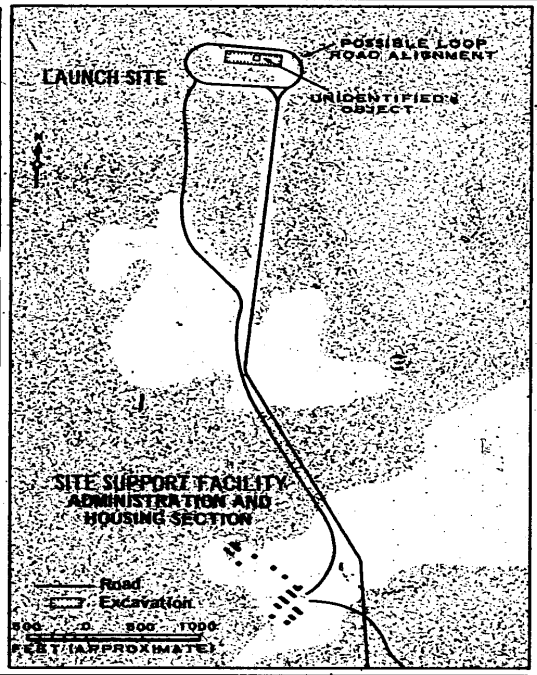
FIGURE 7. LAUNCH AREA B.

administration and housing section contains 46 buildings, 28 of which are barracks-type buildings. The housing section contains five buildings, four of which are barracks-type buildings. A power trace approaches the site support facility from the southwest.

LAUNCH AREA C

Launch Area C consists of a Type IIIA launch site, in the early stage of construction, and a site support facility (Figure 8). It is located in a wooded area 25.8 nm northwest of the com-



LAUNCH SITE		SITE SUPPORT FACILITY ADMINISTRATION AND HOUSING SECTION	
Site orientation	5°	1 T-shaped building	140' x 45' 90' x 45'
Loop road	1090' x 480'	4 Buildings	140' x 45'
Excavation	555' x 120'	2 Buildings	110' x 30'
		1 L-shaped building	110' x 30' 90' x 30'

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FIGURE 8. LAUNCH AREA C.

25X1D

plex support facility. The launch area was first seen in [redacted] and can be negated [redacted]

25X1D

25X1D

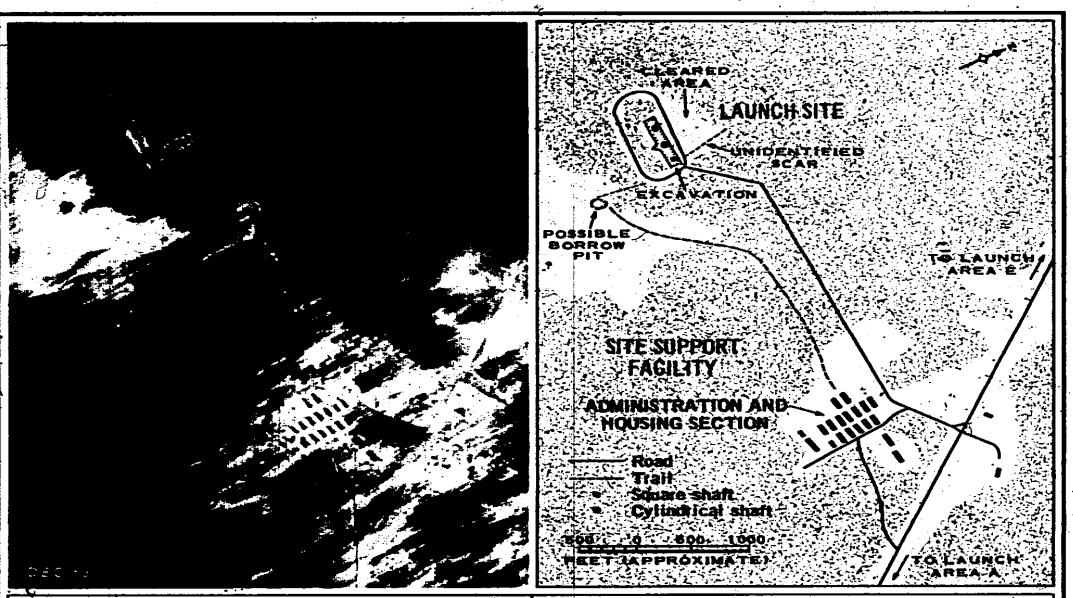
The launch site is oriented on an azimuth of 5 degrees, [redacted] No security fencing is visible around the launch site. There is an apparent clearing for the loop road and an excavation. Details within the excavation were obscured by darkness and long shadows in [redacted]

25X1D

The site support facility is approximately one nm south of the launch site. It consists of an administration and housing section which contains 14 buildings, including one L-shaped building, one T-shaped building, and 6 barracks-type buildings.

LAUNCH AREA D

Launch Area D consists of a Type IIIA launch site, in an early stage of construction, and a site support facility (Figure 9). It is in a wooded area, 15.4 nm north of the complex



25X1D

LAUNCH SITE		SITE SUPPORT FACILITY ADMINISTRATION AND HOUSING SECTION	
Site orientation	5° [redacted]	16 Buildings	140' x 45'
Loop road	1000' x 490'	1 Building	160' x 45'
Rectangular excavation	565' x 135'	1 Building	110' x 30'
Distance between shafts	180'		
Shaft diameter	Approximately 45'		

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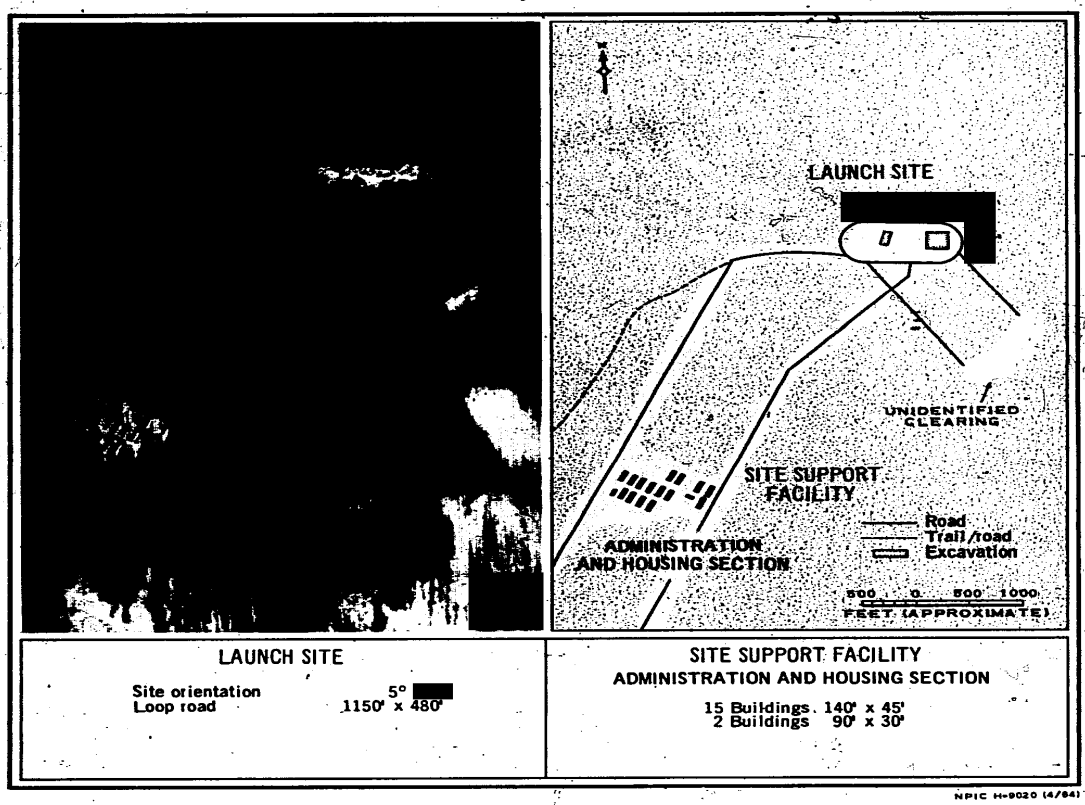
FIGURE 9. LAUNCH AREA D.

support facility. The launch area was first seen 25X1D [redacted] and can be 25X1D negated in [redacted]

The launch site is oriented on an azimuth 25X1D of 5 degrees. [redacted] No security fencing is apparent around the launch 25X1D site. Within the launch site in [redacted] 25X1D [redacted] an excavation, three equally spaced shafts in the excavation, and a notch on the south side of the excavation were observed under construction. The three shafts have a diameter of approximately 45 feet. The center shaft and the shaft left of the notch are cylindrical, but the right shaft appears to be square. Long shadows obscure details within the excavation and all measurements are approximate.

The site support facility is 2,900 feet east of the launch site. It consists of an administration and housing section containing 21 buildings, including 17 barracks-type buildings.



25X1D

25X1D

25X1D

FIGURE 10. LAUNCH AREA E.

LAUNCH AREA E

Launch Area E consists of a Type IIIA launch site, in an early stage of construction, and a site support facility (Figure 10). It is in a heavily wooded area, 20.3 nm north of the complex support facility. The launch area was

25X1D

first seen in [redacted] and

25X1D

can be negated in [redacted]

The launch site is oriented on an azimuth

25X1D

of 5 degrees, [redacted] No security fencing is discernible around the launch site. The oval pattern at the launch site contains two small excavations at the probable extremities of the planned excavation for the silos. Darkness and shadows preclude further interpretation of the launch site.

The site support facility is 2,900 feet southwest of the launch site. It contains an administration and housing section with 17 buildings, 15 of which are barracks-type buildings.

An unidentified clearing is 1,000 feet southeast of the launch site. Two roads extend from the launch site to this clearing. Its function has not been determined since no activity is apparent within it.

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PHOTOGRAPHY

25X1D

[redacted]

MAPS OR CHARTS

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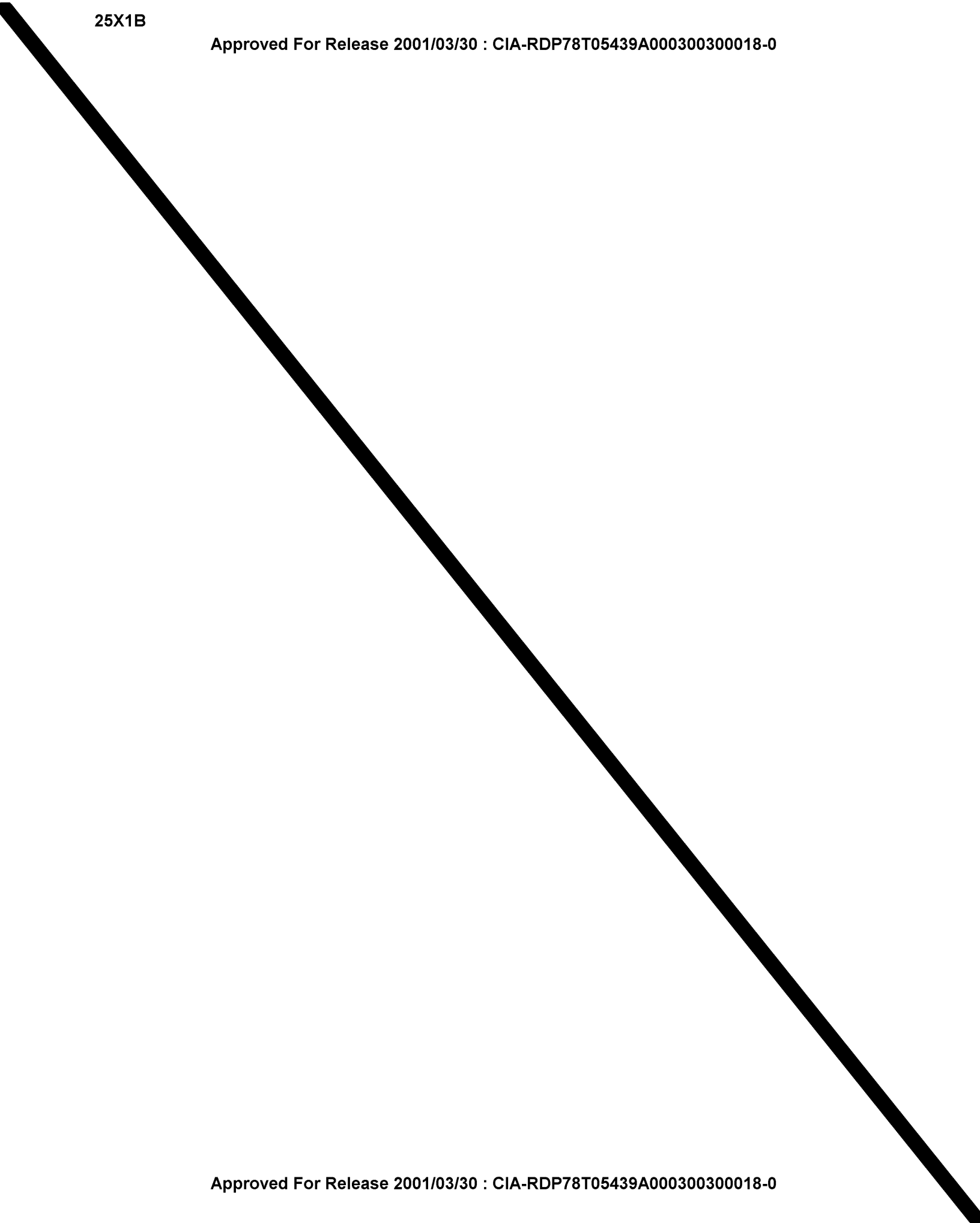

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